

# PROCEDURE MODIFICATION

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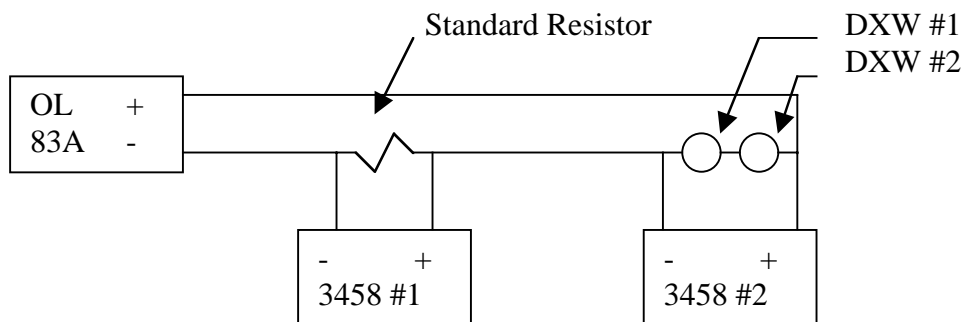
## For Calibration Procedure for Optronics OL 83A Programmable Current Source

### SCOPE

This procedure modification applies to the calibration procedure defined in Optronics Manual Number M000118, *OL 83A Programmable DC Current Source Manual*, summarized in CF document PROC001A, available on the CF web site, <http://spectral.gsfc.nasa.gov/>.

### PROCEDURE PREPARATION

- Disconnect OL 83A from power mains
- Remove OL 83A top cover
- Set switch S1-1 on the main control board to CLOSED
- Replace top cover
- Connect components as shown below:



**PROCEDURE:** This procedure is a slight modification of the usual OL 83A calibration procedure. The modification is intended to make the calibration process slightly easier on the technician, and does not compromise the quality of the calibration. The technician must be familiar with the usual OL 83A calibration procedure before proceeding.

- Turn supply and both 3458s on and let warm up for 24 Hours.
- Start the OL83A CALIBRATE VOLTAGE routine, and let stand for 1 Hour.
- Execute the AUTO-CAL ALL function on both 3458 DMMs (can occur during previous step.)
- While monitoring 3458 #2, adjust the OL 83A output voltages (60.0 and 120.0 V) as specified in the OL 83A manual.
- When voltage calibration is complete, remove or shunt DXW #2 before proceeding to current calibration.
- Start the OL 83A CALIBRATE CURRENT routine, and let stand for 1 Hour.

- While monitoring 3458 #1, adjust the OL 83A output current (4.000 and 8.000 A) as specified in the OL 83A manual.

**PROCEDURE**  
**CONCLUSION**

- Disconnect OL 83A from power mains
- Remove OL 83A top cover
- Set switch S1-1 on the main control board to OPEN
- Replace top cover